

	1	10	20	30	40	50	60	70	80	
Consensus	MTATPLTNLFLRAPDITHVAPPYCLNATWQAEETAMHTSKTDSACVAVRSYLVRASCETSGTIHCFFFAVYKDTHTHTPPLITELRNF									
Identity	<div></div>									
1. 17v2 UL55	MTATPLTNLFLRAPDITHVAPPYCLNATWQAEETAMHTSKTDSACVAVRSYLVRASCETSGTIHCFFFAVYKDTHTHTPPLITELRNF									
2. F UL55	MTATPLTNLFLRAPDITHVAPPYCLNATWQAEETAMHTSKTDSACVAVRSYLVRASCETSGTIHCFFFAVYKDTHTHTPPLITELRNF									
3. H129 UL55	MTATPLTNLFLRAPDITHVAPPYCLNATWQAEETAMHTSKTDSACVAVRSYLVRASCETSGTIHCFFFAVYKDTHTHTPPLITELRNF									
4. KOS UL55	MTATPLTNLFLRAPDITHVAPPYCLNATWQAEETAMHTSKTDSACVAVRSYLVRASCETSGTIHCFFFAVYKDTHTHTPPLITELRNF									
5. McKr UL55	MTATPLTNLFLRAPDITHVAPPYCLNATWQAEETAMHTSKTDSACVAVWSYLVRASCETSGTIHCFFFWVYKDTHTHTPPLITELRNF									
6. CR38 UL55	MTATPLTNLFLRAPDITHVAPPYCLNATWQAEETAMHTSKTDSACVAVRSYLVRASCETSGTIHCFFFAVYKDTHTHTPPLITELRNF									
7. E03 UL55	MTATPLTNLFLRAPDITHVAPPYCLNATWQAEETAMHTSKTDSACVAVRSYLVRASCETSGTIHCFFFAVYKDTHTHTPPLITELRNF									
8. E06 UL55	MTATPLTNLFLRAPDITHVAPPYCLNATWQAEETAMHTSKTDSACVAVRSYLVRASCETSGTIHCFFFAVYKDTHTHTPPLITELRNF									
9. E07 UL55	MTATPLTNLFLRAPDITHVAPPYCLNATWHAETAMHTSKTDSACVAVRSYLVRASCETSGTIHCFFFAVYKDTHTHTPPLITELRNF									
10. E08 UL55	MTATPLTNLFLRAPDITHVAPPYCLNATWQAEETAMHTSKTDSACVAVRSYLVRASCETSGTIHCFFFAVYKDTHTHTPPLITELRNF									
11. E10 UL55	MTATPLTNLFLRAPDITHVAPPYCLNATWQAEETAMHTSKTDSACVAVRSYLVRASCETSGTIHCFFFAVYKDTHTHTPPLITELRNF									
12. E11 UL55	MTATPLTNLFLRAPDITHVAPPYCLNATWQAEETAMHTSKTDSACVAVRSYLVRASCETSGTIHCFFFAVYKDTHTHTPPLITELRNF									
13. E12 UL55	MTATPLTNLFLRAPDITHVAPPYCLNATWHAETAMHTSKTDSACVAVRSYLVRASCETSGTIHCFFFAVYKDTHTHTPPLITELRNF									
14. E13 UL55	MTATPLTNLFLRAPDITHVAPPLLPQRHLAQRNGHAHQNGRLRLRGRALPGPRLI									
15. E14 UL55	MTATPLTNLFLRAPDITHVAPPYCLNATWHAETAMHTSKTDSACVAVRSYLVRASCETSGTIHCFFFAVYKDTHTHTPPLITELRNF									
16. E15 UL55	MTATPLTNLFLRAPDITHVAPPYCLNATWQAEETAMHTSKTDSACVAVRSYLVRASCETSGTIHCFFFAVYKDTHTHTPPLITELRNF									
17. E19 UL55	MTATPLTNLFLRAPDITHVAPPYCLNATWQAEETAMHTSKTDSACVAVRSYLVRASCETSGTIHCFFFAVYKDTHTHTPPLITELRNF									
18. E22 UL55	MTATPLTNLFLRAPDITHVAPPYCLDATWQAEETAMHTSKTDSACVAVRSYLVRASCETSGTIHCFFFAVYKDTHTHTPPLITELRNF									
19. E23 UL55	MTATPLTNLFLRAPDITHVAPPYCLNATWQAEETAMHTSKTDSACVAVRSYLVRASCETSGTIHCFFFAVYKDTHTHTPPLITELRNF									
20. E25 UL55	MTATPLTNLFLRAPDITHVAPPYCLNATWQAEETAMHTSKTDSACVAVRSYLVRASCETSGTIHCFFFAVYKDTHTHTPPLITELRNF									
21. E35 UL55	MTATPLTNLFLRAPDITHVAPPYCLNATWQAEETAMHTSKTDSACVAVRSYLVRASCETSGTIHCFFFAVYKDTHTHTPPLITELRNF									
22. R11 UL55	MTATPLTNLFLRAPDITHVAPPYCLNATWQAEETAMHTSKTDSACVAVRSYLVRASCETSGTIHCFFFAVYKDTHTHTPPLITELRNF									
23. R62 UL55	MTATPLTNLFLRAPDITHVAPPYCLNATWQAEETAMHTSKTDSACVAVRSYLVRASCETSGTIHCFFFAVYKDTHTHTPPLITELRNF									
24. S23 UL55	MTATPLTNLFLRAPDITHVAPPYCLNATWQAEETAMHTSKTDSACVAVRSYLVRASCKTSGTIHCFFFAVYKDTHTHTPPLITELRNF									
25. S25 UL55	MTATPLTNLFLRAPDITHVAPPYCLNATWQAEETAMHTSKTDSACVAVRSYLVRASCETSGTIHCFFFAVYKDTHTHTPPLITELRNF									

	90	100	110	120	130	140	150	160	170											
Consensus	ADLVNHPPVLRLELEDKRGVRLRCARPF SVGTIKDVSGSGASSAGEYTINGIVYHCHCRYPF SKTCWMGASAAALQHRLRSI SSSGMAA																			
Identity	<div></div>																			
1. 17v2 UL55	ADLVNHPPVLRLELEDKRGVRLRCARPF SVGTIKDVSGSGASSAGEYTINGIVYHCHCRYPF SKTCWMGASAAALQHRLRSI SSSGMAA																			
2. F UL55	ADLVNHPPVLRLELEDKRGVRLRCARPF SVGTIKDVSGSGASSAGEYTINGIVYHCHCRYPF SKTCWMGASAAALQHRLRSI SSSGMAA																			
3. H129 UL55	ADLVNHPPVLRLELEDKRGVRLRCARPF SVGTIKDVSGSGASSAGEYTINGIVYHCHCRYPF SKTCWMGASAAALQHRLRSI SSSGMAA																			
4. KOS UL55	ADLVNHPPVLRLELEDKRGVRLRCARPF SVGTIKDVSGSGASSAGEYTINGIVYHCHCRYPF SKTCWMGASAAALQHRLRSI SSSGMAA																			
5. McKr UL55	ADLVNHPPVLRLELEDKRGVRLRCARPF SVGTIKDVSGSGASSAGEYTINGIVYHCHCRYPF SKTCWMGASAAALQHRLRSI SSSGMAA																			
6. CR38 UL55	ADLVNHPPVLRLELEDKRGVRLRCARPF SVGTIKDVSGSGASSAGEYTINGIVYHCHCRYPF SKTCW T GASAAALQHRLRSI SSSGMAA																			
7. E03 UL55	ADLVNHPPVLRLELEDKRGVRLRCARPF SVGTIKDVSGSGASSAGEYTINGIVYHCHCRYPF SKTCWMGASAAALQHRLRSI SSSGMAA																			
8. E06 UL55	ADLVNHPPVLRLELEDKRGVRLRCARPF SVGTIKDVSGSGASSAGEYTINGIVYHCHCRYPF SKTCWMGASAAALQHRLRSI SSSGMAA																			
9. E07 UL55	ADLVNHPPVLRLELEDKRGVRLRCARPF SVGTIKDVSGSGASSAGEYTINGIVYHCHCRYPF SKTCWMGASAAALQHRLRSI SSSGMAA																			
10. E08 UL55	ADLVNHPPVLRLELEDKRGVRLRCARPF SVGTIKDVSGSGASSAGEYTINGIVY N CHCRYPF SKTCWMGASAAALQHRLRSI SSSGMAA																			
11. E10 UL55	ADLVNHPPVLRLELEDKRGVRLRCARPF SVGTIKDVSGSGASSAGEYTINGIVYHCHCRYPF SKTCWMGASAAALQHRLRSI SSSGMAA																			
12. E11 UL55	ADLVNHPPVLRLELEDKRGVRLRCARPF SVGTIKDVSGSGASSAGEYTINGIVYHCHCRYPF SKTCWMGASAAALQHRLRSI SSSGMAA																			
13. E12 UL55	ADLVNHPPVLRLELEDKRGVRLRCARPF SVGTIKDVSGSGASSAGEYTINGIVYHCHCRYPF SKTCWMGASAAALQHRLRSI SSSGMAA																			
14. E13 UL55																				
15. E14 UL55	ADLVNHPPVLRLELEDKRGVRLRCARPF SVGTIKDVSGSGASSAGEYTINGIVYHCHCRYPF SKTCWMGASAAALQHRLRSI SSSGMAA																			
16. E15 UL55	ADLVNHPPVLRLELEDKRGVRLRCARPF SVGTIKDVSGSGASSAGEYTINGIVYHCHCRYPF SKTCWMGASAAALQHRLRSI SSSGMAA																			
17. E19 UL55	ADLVNHPPVLRLELEDKRGVRLRCARPF SVGTIKDVSGSGASSAGEYTINGIVYHCHCRYPF SKTCWMGASAAALQHRLRSI SSSGMAA																			
18. E22 UL55	ADLVNHPPVLRLELEDKRGVRLRCARPF SVGTIKDVSGSGASSAGEYTINGIVYHCHCRYPF SKTCWMGASAAALQHRLRSI SSSGMAA																			
19. E23 UL55	ADLVNHPPVLRLELEDKRGVRLRCARPF SVGTIKDVSGSGASSAGEYTINGIVYHCHCRYPF SKTCWMGASAAALQHRLRSI SSSGMAA																			
20. E25 UL55	ADLVNHPPVLRLELEDKRGVRLRCARPF SVGTIKDVSGSGASSAGEYTINGIVYHCHCRYPF SKTCWMGASAAALQHRLRSI SSSGMAA																			
21. E35 UL55	ADLVNHPPVLRLELEDKRGVRLRCARPF SVGTIKDVSG LFPRDTRRWGAWLP GGAAD GRAYSVSRPP RTAPP ALPPFDPLIP TRA																			
22. R11 UL55	ADLVNHPPVLRLELEDKRGVRLRCARPF SVGTIKDVSGSGASSAGEYTINGIVYHCHCRYPF SKTCWMGASAAALQHRLRSI SSSGMAA																			
23. R62 UL55	ADLVNHPPVLRLELEDKRGVRLRCARPF SVGTIKDVSGSGASSAGEYTINGIVYHCHCRYPF SKTCWMGASAAALQHRLRSI SSSGMAA																			
24. S23 UL55	ADLVNHPPVLRLELEDKRGVRLRCARPF SVGTIKDVSGSGASSAGEYTINGIVYHCHCRYPF SKTCWMGASAAALQHRLRSI SSSGMAA																			
25. S25 UL55	ADLVNHPPVLRLELEDKRGVRLRCARPF SVGTIKDVSGSGASSAGEYTINGIVYHCHCRYPF SKTCWMGASAAALQHRLRSI SSSGMAA																			

	180	189	
Consensus	RAAEHRRVKIKIKAREV		
Identity			
1. 17v2 UL55	RAAEHRRVKIKIKI		
2. F UL55	RAAEHRRVKIKIKI		
3. H129 UL55	RAAEHRRVKIKIKI		
4. KOS UL55	RAAEHRRVKIKIKI		
5. McKr UL55	RAAEHRRVKIKIKI		
6. CR38 UL55	RAAEHRRVKIKIKI		
7. E03 UL55	RAAEHRRVKIKIKI		
8. E06 UL55	RAAEHRRVKIKIKI		
9. E07 UL55	RAAEHRRVKIKIKI		
10. E08 UL55	RAAEHRRVKIKIKI		
11. E10 UL55	RAAEHRRVKIKIKI		
12. E11 UL55	RAAEHRRVKIKIKI		
13. E12 UL55	RAAEHRRVKIKIKI		
14. E13 UL55	RAAEHRRVKIKIKI		
15. E14 UL55	RAAEHRRVKIKIKI		
16. E15 UL55	RAAEHRRVKIKIKI		
17. E19 UL55	RAAEHRRVKIKIKI		
18. E22 UL55	RAAEHRRVKIKIKI		
19. E23 UL55	RAAEHRRVKIKIKI		
20. E25 UL55	RAAEHRRVKIKIKI		
21. E35 UL55	RGA		
22. R11 UL55	RAAEHRRVKIKIKI		
23. R62 UL55	RAAEHRRVKIKIKI		
24. S23 UL55	RAAEHRRVKIKIKI		
25. S25 UL55	RAAEHRRVKIKIKI		